

# AASHI

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## EDUCATION

VIT Bhopal University	2023 – 2027
<i>B.Tech in Computer Science and Engineering (AI-ML)</i>	<i>Bhopal, India</i>
CGPA: 9.30	
St. Xavier's Sr. Sec. School	2023
<i>Class 12th - PERCENT – 94.8</i>	Delhi, India
St. Xavier's Sr. Sec. School	2021
<i>Class 10th - PERCENT – 97.6 (School Topper)</i>	Delhi, India

## PROJECTS

### Facial Expression Recognition

- Built an AI model achieving over 96% accuracy on the CK+ dataset for emotion detection.
- Used Convolutional Neural Networks and SVM, optimized with the VGG16 architecture.

**Tech Stack:** Python, TensorFlow, Keras, OpenCV, Scikit-learn, SVM, VGG16.

### ShuttleSense: Badminton Analytics Using AI-ML

- Group project analyzing real-time badminton gameplay using computer vision.
- Trained a custom pose detection model using YOLOv8 for actions like smash, serve, and backhand.

**Tech Stack:** Python, YOLOv8, OpenCV, Roboflow, PyTorch.

## RESEARCH WORK

### Facial Expression Recognition Using CNN and SVM

- Co-authored a research paper proposing a hybrid facial expression recognition model that combines VGG16based CNN feature extraction with SVM classification.
- Achieved 97.97% validation accuracy and a 0.98 F1-score on the CK+ dataset across seven emotion classes, outperforming standard deep learning baselines.
- Research selected for publication by Springer following peer review at an international conference.
- Leveraged transfer learning, advanced data augmentation, and class balancing techniques to enhance model generalization across CK+, FER13, and combined datasets.

## TECHNICAL SKILLS

Languages: Python, C++, Java, MySQL

Development Tools & Libraries: TensorFlow, Keras, OpenCV, Scikit-learn

CS Fundamentals: Data Structures, Algorithms, OOP, OS, Computer Networks

## ACHIEVEMENTS & ACTIVITIES

- Hackathons: Secured 3rd place at Solvit Hackathon organised by the Hostel Committee.
- Solved 150+ problems on various coding platforms (Leetcode, GfG, Coding Ninjas etc.)